

WHAT IS CLAIMED IS:

1. A method for analyzing and displaying reliability data through use of a network-based system including a server and at least one device connected to the server via a network, said method comprising the steps of:

receiving reliability information from a user via the device;

performing statistical tests on the received reliability information;

generating a report relating to the statistical tests; and

displaying the information related to the report.

2. A method according to Claim 1 wherein said step of generating a report relating to the statistical tests further comprises the step of generating a plot of the Weibull cumulative probability function.

3. A method according to Claim 2 wherein said step of generating a report relating to the statistical tests further comprises the step of generating a plot of the Weibull cumulative probability function of unreliability as a function of cycles.

4. A method according to Claim 1 wherein said step of generating a report relating to the statistical tests further comprises the step of generating a Pareto histogram.

5. A method according to Claim 4 wherein said step of generating a Pareto histogram further comprises the step of generating of Pareto histogram of failure mode.

6. A method according to Claim 1 wherein said step of generating a report relating to the statistical tests further comprises the step of generating a control chart.

7. A method according to Claim 1 wherein the reliability information is received from the user via a graphical user interface.

8. A system for analyzing and displaying reliability data, said system comprising:

a device; and

a server connected to said device and configured to receive reliability information from a user via said device, said server further configured to:

perform statistical tests on the received reliability information;

generate a report relating to the statistical tests; and

display the information related to the report.

9. A system according to Claim 8 wherein said server further configured to download to the user the information related to the report.

10. A system according to Claim 8 wherein said server further configured to generate a plot of the Weibull cumulative probability function.

11. A system according to Claim 8 wherein said server further configured to generate a plot of the Weibull cumulative probability function of unreliability as a function of cycles.

12. A system according to Claim 8 wherein said server further configured to generate a Pareto histogram.

13. A system according to Claim 8 wherein said server further configured to generate a Pareto histogram of failure mode.

14. A system according to Claim 8 wherein said server further configured to generate a control chart.

15. A system according to Claim 8 wherein said server further configured to receive the reliability information from the user via a graphical user interface.

16. A system according to Claim 8 wherein said device configured to be a server for a network of customer devices.

17. A system according to Claim 8 wherein said server and said device are connected via a network.

18. A system according to claim 17 wherein said network is one of a wide area network, a local area network and the Internet.

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